**IT Applications Unit 3, AOS 2, Organisations and Data Management**

**Database Design Tools, p 106**

**Naming Conventions**

1. List the naming conventions that can be applied to a database.

**The** naming conventions that can be applied to a database are prefix tables, TBl customer, Tbl product, customer table, cusCustomerID, cusAddress; Queries, prefixed with qry; forms with frm; reports rpt.

**Entity-Relationship Diagram, (ERD)**

1. Describe the nature of these diagrams.

Entity-relationship diagram is:

* Used to establish interrelationships between different data elements
* Use symbols
* In an ERD entities are things about which information is sought, eg. books, films & attributes are the elements of data we collect about those entities.

1. Draw the symbols used to represent, entities, relationships and attributes.

Tp\\\

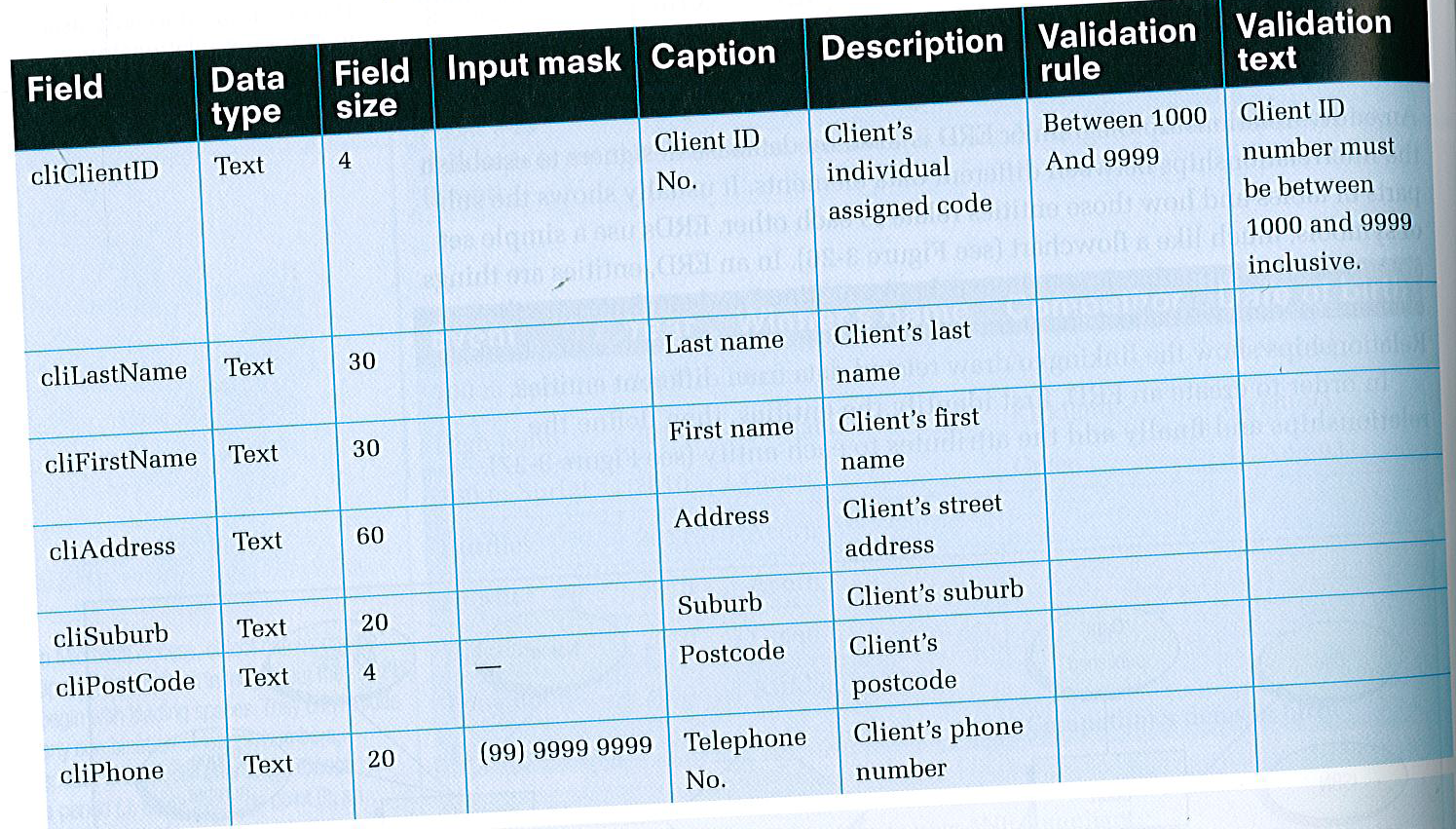
1. List the three steps to create an ERD.

1 identify the entities

1. Define the relationship
2. Add the attributes to each entity.

**Data Structure Table**

1. draw a diagram of the data structure table which is used to design a new database.



1. Note: database tables cannot hold formulas.

**Data Structure diagram**

1. What is the purpose of this diagram?

The purpose of the diagram Indicate relationships existing between specific tables of database, indicate type of relationship in diagram.

**Query Design**

1. what is a query?

Query design is a specific field to be concluded and the table in with they are in.

1. Distinguish between a primary and a secondary sort

A primary sort is the first sort of data and a secondary sort is the second sort of data.

1. Read the query criteria that can be used, including symbols, plain text, \*? Wildcards, etc.

**Layout diagram**

1. What does a layout diagram involve?

A layout diagram involves:

* Sketching of input form or output (reports)
* Location of headings, labels, fields, use of formats & conventions
* Annotated to show formatting for all elements, font type, size 7 style
* Formulas used to be shown

1. List what is contained on a layout diagram.

What is on a layout diagram:

* Headings
* Layouts
* Fields

**Test Data**

1. When is a set of test data prepared?

The set of test data is prepared in the design stage.

1. What is the role of the test data?

Test data is chosen to test all aspects of the solutions. The test plan is to show that all of the functions are working.

**Validating data**

1. List the available electronic validation checks in the software.

The available electronic validation checks in the software are:

* Spell check
* Range check
* Grammar checking
* Data type list
* Input masks

1. What is an input mask?

An input masks can be used to reduce the chance that invalid data is entered. An input mask can be set for any field that holds text or data and controls how the data is entered.